

# **CCT460: ADVANCED WEB DESIGN**

**(Let's start with some provocations)**



**Josh Clark**  
@globalmoxie

Following



“Metadata is the new art direction.”—@studip101.  
Structured content allows creative control in any  
context. Build for flexibility. #sndstl

4

RETWEETS

3

FAVORITES



4:07 PM - 30 Sep 11 via globalmoxie.com · Embed this Tweet



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Retweet



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twitter © 2011 Twitter About Help

# HANDS MANIPULATE THINGS



What can you do with a Picture Under Glass? You can slide it.



That's the fundamental gesture in this technology. Sliding a finger along a flat surface.

There is *almost nothing in the natural world* that we manipulate in this way.



That's pretty much all I can think of.



**Justin Edmund** @jedmund

41m

The whole internet looks like shit.

Expand

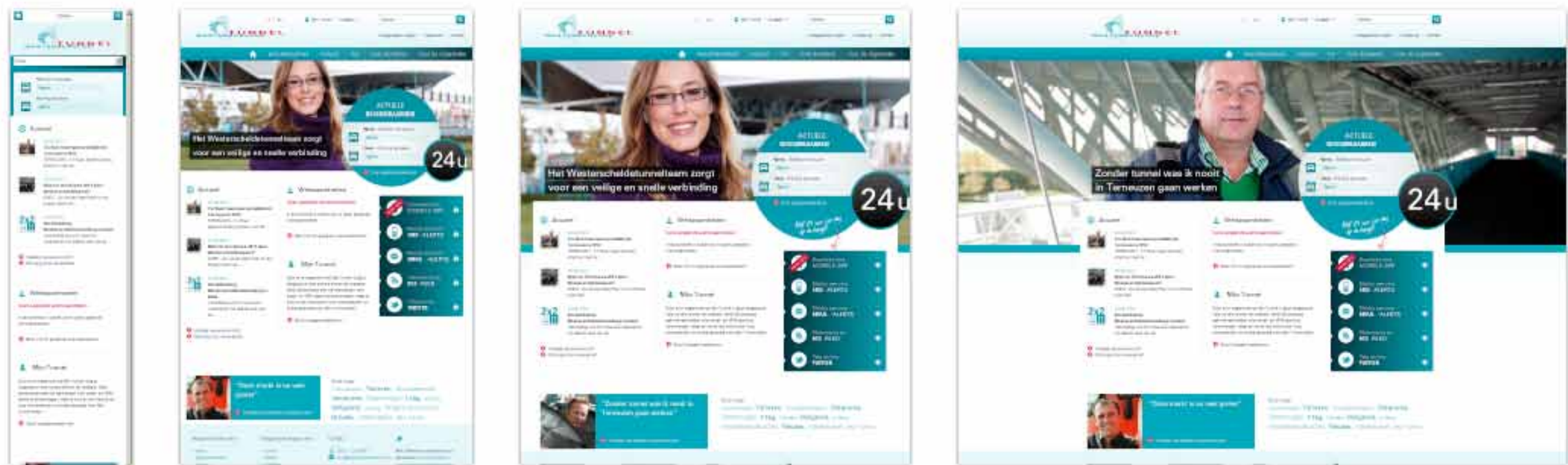


**Justin Edmund** @jedmund

43m

This retina MacBook Pro is insane.

Expand



<http://mediaqueri.es/wtu>





# **CCT460: ADVANCED WEB DESIGN**

**(ALTERNATE COURSE CODE DRUPAL 101)**



<http://vimeo.com/18352872>

# Drupal Timeline

**2001: Released by Belgian programmer Dries Buytaert**

**2002: Drupal 4.0 Launched**

**2007: Drupal 5.0 Launched**

**2008: Drupal 6.0 Launched**

**2011: Drupal 7.0 Launched**

- Originally developed as message board.**
- 7.5-8 million sites powered by Drupal (~1% of internet)**
- Often wins open source CMS awards (e.g. Packt)**
- Championed by major tech-figures including Tim O'Reilly**
- Drupal 7.0 was developed by ~1000 contributors**
- 9300 (was ~7000 a year ago)**
- Now powers many high profile sites including Whitehouse.gov, The Economist, etc.**



## Drupal Release Timeline

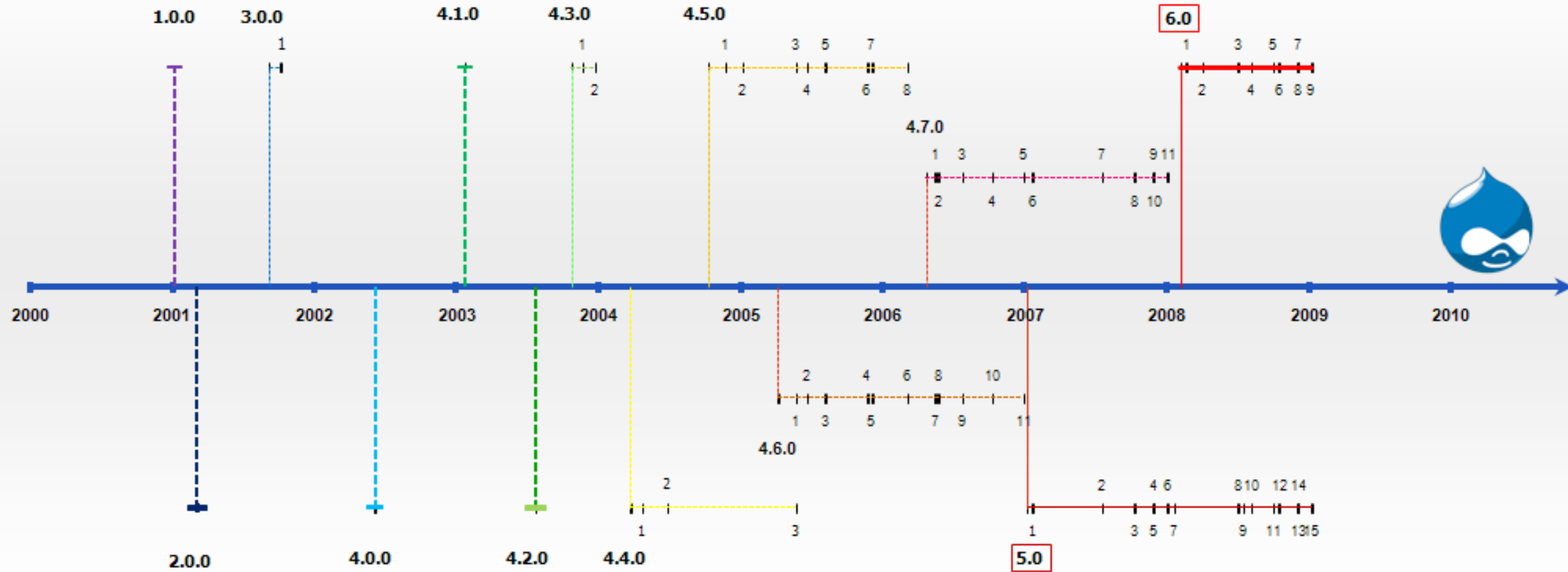


image source: [http://en.wikipedia.org/wiki/File:Drupal\\_release\\_timeline.png](http://en.wikipedia.org/wiki/File:Drupal_release_timeline.png)

**But those are just stats, why the popularity?**

**Modularity – ‘there is a module for that’**

**Flexibility – can be leveraged for almost any use.**

**Community – enthusiastic users constantly improving the platform.**

**...and what are the shortcomings? (actual and perceived)**

**Scalability/Performance – doesn't always handle intense traffic well without serious tweaking.**

**Usability – unintuitive, lacks usability for admins and users.**

**Hard to learn – learning curve always described as 'steep'**

**Design – not pretty, 'out of the box'**



**Graeme**

Posted August 18, 2010 at 1:30 am | [Permalink](#)

I think Drupal is widely accepted as one of, if not the most complex, but most powerful open-source CMS available. It comes with its own terminology and way of thinking which even experienced developers have to get their heads around, so there is a learning curve for everyone.

<http://robozen.com/design/drupal-sucks-followup-drupal-alternatives/>

**It comes with its own terminology and way of thinking... there is a learning curve for everyone.**

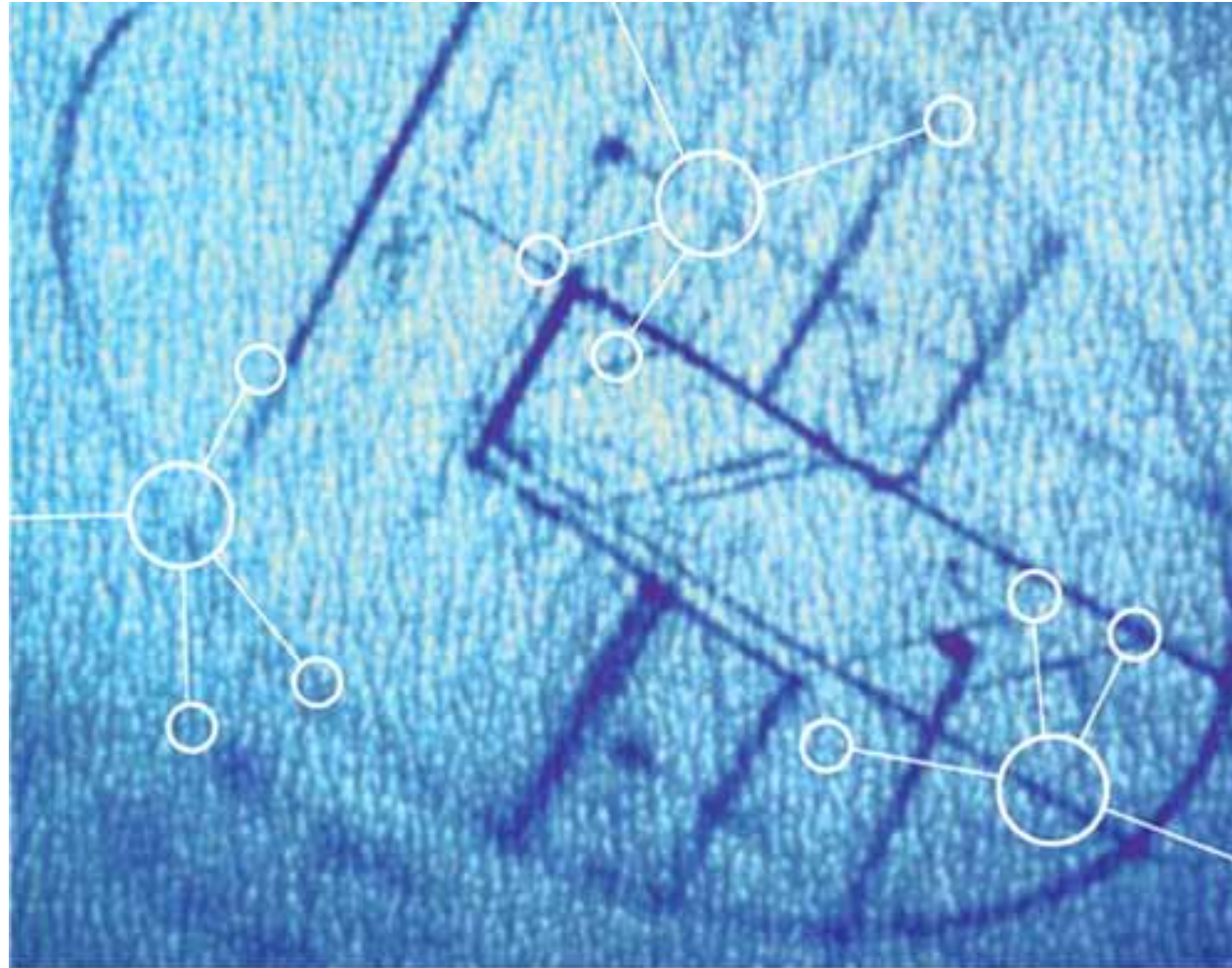
**So given the learning curve, what are our goals for 460?**

- get students comfortable developing, administering and designing in Drupal**
- develop a broad understanding of how modules work and can be interconnected**
- learn how to theme in Drupal (and improve our CSS skills in the process)**
- use custom content types to build and manipulate publishing workflows**
- learn to use views and panels to display content**
- use jQuery to improve interface /display elements**
- tweak speed and SEO performance**

**...and most importantly. Build some neat stuff!**



**Students who apply themselves in this course can expect to have entry-level content manager and/or junior drupal developer skills by the end of the semester.**



# Information architecture

BLUEPRINTS FOR THE WEB

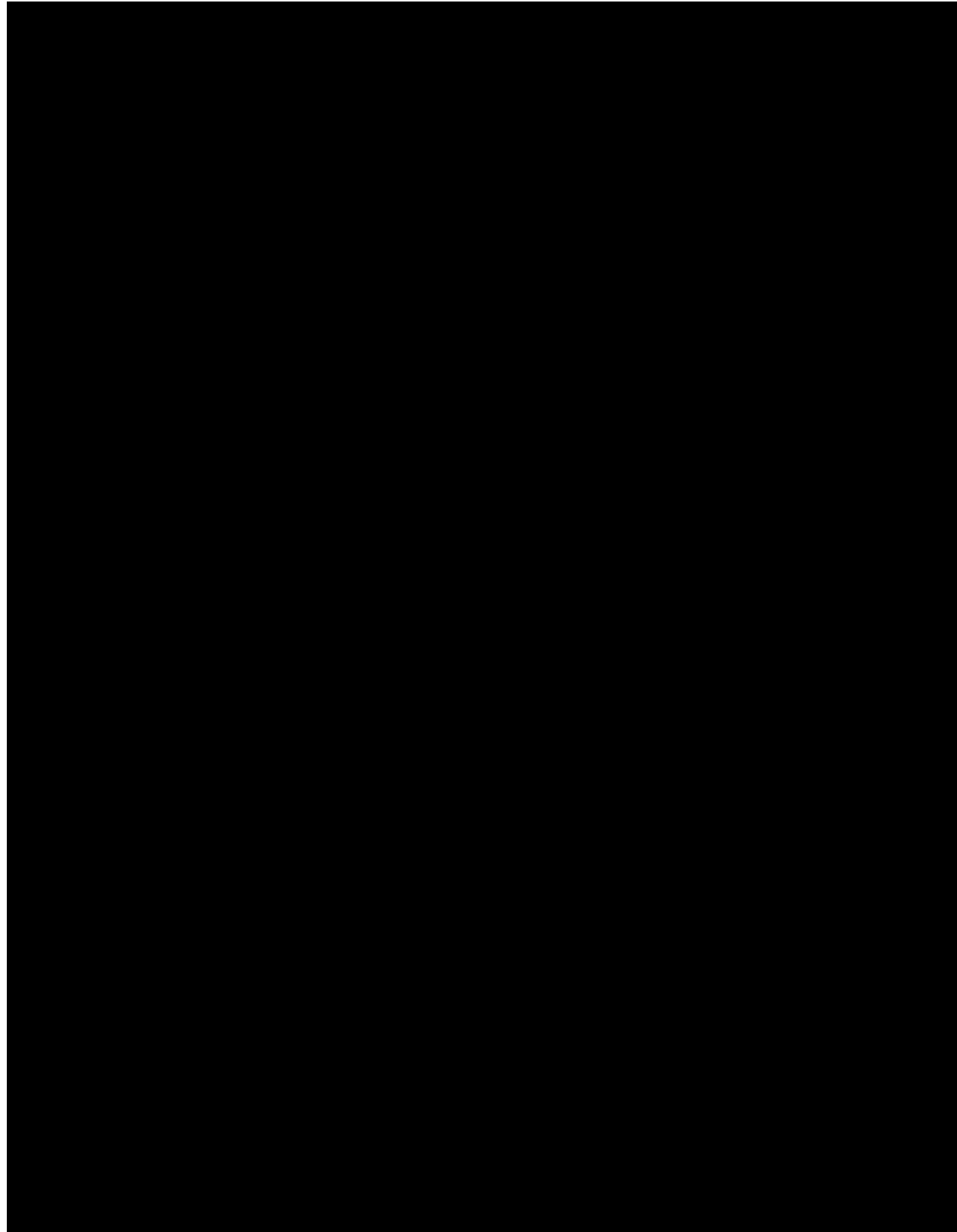
SECOND EDITION

Christina Wodtke and Austin Govella

New  
Riders

VOICES THAT MATTER™

CCT360



**CCT460 – no silver bullet text**

**That is not to say there are NO books. There are quite a few actually – just none that are right for the course.**

**If you really want a text to consult, please note the 'Reference books/sites' page on the wiki that I'll flush out in the coming weeks.**

**If we lack a key reference text, how do we find solutions?**

## Documentation

[Docs Home](#)[API](#)[Recently Updated](#)

### Getting Started with Drupal

#### Understanding Drupal

Learn about Drupal concepts, technology stack, terminology, and resources.

#### Installation Guide

Install Drupal and its contributed modules and themes. Run multiple sites from one installation. Migrate from other content management systems and address platform issues.

#### Administration Guide

Manage users and content, perform backups and upgrades, secure your site, tweak performance, etc. *Audience: System and site administrators*

#### Structure Guide

Work with content types, blocks, menus, views, panels, taxonomy, multilingual content, user profiles, and navigation. *Audience: information architects*

#### Site Building Guide

Add functionality and features such as e-commerce, forums, media, search, geographic data, dates, workflow, messaging, forms, social networking, etc. *Audience: site builders, developers and business architects*

#### Theming Guide

Customize the interface using templates, CSS, etc. Override the output from core or contributed modules. *Audience: designers, usability and accessibility professionals, interface experts*

### Help Us Write Documentation

All content is written and edited by volunteers, please [contribute where you see a need](#). If you have a Drupal.org account, you can edit a handbook page by clicking the "Edit" at the top of the page. You can also add new pages by using the "add a child page" link at the bottom. For more information on helping with the documentation, see [quick ways to improve documentation](#).

The Drupal handbook pages are © 2000–2011 by the [individual contributors](#) and can be used in accordance with the [Creative Commons License, Attribution-ShareAlike 2.0](#). PHP code is distributed under the [GNU General Public License](#)

### Writing Your Own Code

#### Developing for Drupal

Work with the API, JavaScript, and databases. Learn the Drupal coding standards. *Audience: developers*

#### API Reference

Search the complete Drupal API including forms, menus, node access, theme system, etc.

#### Examples for Developers

Examine a standard repository of sample code that demonstrates how to use the

### Tutorials

#### Drupal Cookbook

Follow a walkthrough of a typical Drupal setup.

#### Tutorials

Follow step-by-step instructions for a number of common Drupal tasks.

#### Videos and slides

View slide and video presentations covering a wide range of subjects from installation through to developing your own modules.





view doesn't work in drupal



Search

Instant is on ▾

About 5,850,000 results (0.23 seconds)

[Advanced search](#)

Everything

Images

Videos

News

Discussions

More

Toronto, ON

Change location

The web

Pages from Canada

More search tools

► [default "user\\_relationships\\_content" View doesn't work for one-way ...](#) ☆ 🔍

20 posts - 13 authors - Last post: 6 May 2009

The default "user\_relationships\_content" **view doesn't** seem to **work** for any one-way relationships. I have two relationship types - "friend" ...

[drupal.org > User Relationships > Issues - Cached - Similar](#)

[selection view doesn't work on drupal in a sub-directory](#) - 7 posts - 22 Apr 2010

[Link pane title to view doesn't work \(sometimes\)](#) - 6 posts - 3 Jul 2009

[Node content display view doesn't work](#) - 7 posts - 17 Mar 2009

[Insert view doesn't work with i18n](#) - 7 posts - 29 Mar 2007

[More results from drupal.org »](#)

[replacing drupal 6 core search with views search | groups.drupal.org](#) ☆ 🔍

simplest way to to take your **view** and configure its path to be ...

[groups.drupal.org/node/18582 - Cached - Similar](#)

[Show more results from drupal.org](#)

[Drupal, Views: trimming text doesn't work because tags are not ...](#) ☆ 🔍

30 Sep 2010 ... hi,. I have a node with a text area editable with CKEditor. ... Very interesting and I confirm your findings. I made an arbitrary **view** in the ...

[stackoverflow.com/.../drupal-views-trimming-text-doesnt-work-because-tags-are-not-closed-properly - Cached](#)

[CKSource • View topic - CKEditor under Drupal doesn't work.](#) ☆ 🔍

4 posts - 2 authors - Last post: 23 Jul 2010

Change font size; Print **view** · FAQ ... CKEditor under **Drupal doesn't work**. Post by atlx »

Tue Jun 29, 2010 10:33 pm ...

[cksource.com/forums/viewtopic.php?f=6&t=19312&start=0 - Cached](#)

[Drag and drop of view fields doesn't work in chrome | Drupal Gardens](#) ☆ 🔍

19 Nov 2010 ... Drag and drop of **view** fields **doesn't work** in chrome ... 2010 Acquia.

Powered by **Drupal**. **Drupal** is a registered trademark of Dries Buytaert. ...

[www.drupalgardens.com/.../drag-and-drop-view-fields-doesnt-work-chrome - Cached](#)

[Related Content with Views 2 in Drupal | Web Presence](#) ☆ 🔍

Show related or similar content in a block with **Views 2** in **Drupal**. ... Tried it. It simply **doesn't**. Tried it. It simply **doesn't work** at all. ...

[www.hankpalan.com/.../drupal/related-content-views-2-drupal - Cached - Similar](#)

[How To: Using Drupal Views module | GotDrupal.com | Drupal ...](#) ☆ 🔍

3 Feb 2009 ... Video **doesn't** play for me in IE7 or Chrome on XP. .... I used the **Views** module to list all the terms but it won't **work**. ...

## Download & Extend

[Download & Extend Home](#)[Drupal Core](#)[Modules](#)[Themes](#)[Translations](#)[Installation Profiles](#)[Views Hacks » Issues](#)

## Views Filters Auto-submit does not work with hierarchical select exposed filter

Posted by [pavanut](#) on *October 13, 2010 at 8:12am*

Project:	Views Hacks
Version:	6.x-1.x-dev
Component:	Views Filters Auto-submit
Category:	feature request
Priority:	normal
Assigned:	Unassigned
Status:	active

Jump to:

[Most recent comment](#)[Most recent attachment](#)

### Description

First off thanks for the great hacks!

The auto-submit works great for all exposed filter except for a hierarchical select filter. I was looking for it to work for both the parent and child selections, however neither of those seem to update until another exposed filter is utilized. I was attempting via the latest dev.

Thanks again!

[Login](#) or [register](#) to post comments

## Comments

#1 Posted by [infojunkie](#) on *October 15, 2010 at 8:04pm*

~~Can you please try with the latest dev release? It contains (untested) support for hierarchical selects.~~

Sorry I realized you already tested with the latest dev. Can you explain your scenario in more detail to help me reproduce it?

[Login](#) or [register](#) to post comments

#2 Posted by [pavanut](#) on *October 16, 2010 at 6:59am*

Sure! Let me know if there's any information that I don't include.

I'm on Drupal v 6.16, with php 5.2.10.

Modules I have installed are CCK, Views, and Hierarchical Select.

Within Taxonomy, I have two Vocabularies defined. One of the vocabularies is location: State as the parent term, and City as it's Child. The

## Download & Extend

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[Views](#)

## Issues for Views

[Login or register](#) to create an issue [Advanced search](#) [Statistics](#)

Search for	Status	Priority	Category	Version	Component			
<input type="text"/>	<input type="text" value="- Open issues -"/>	<input type="text" value="- Any -"/>	<input type="text" value="- Any -"/>	<input type="text" value="- Any -"/>	<input type="text" value="- Any -"/>	<input type="button" value="Search"/>		
Summary	Status	Priority	Category	Version	Component	Replies	Last updated	Assigned to
<a href="#">Create "Search" textfield in widgets for Views Admin List</a>	active	normal	feature requests	6.x-3.x-dev	User interface	2	1 hour 27 min	
<a href="#">remove user pictures, timestamp etc. from a node view</a>	fixed	normal	support requests	6.x-2.9	node data	2	1 hour 30 min	
<a href="#">Ajax pager breaks after submitting exposed filter in nested view</a>	active	normal	bug reports	6.x-2.11	Code	1	1 hour 33 min	
<a href="#">term_relation un-todo-ed?</a>	fixed	normal	feature requests	6.x-2.x-dev	taxonomy data	7	1 hour 51 min	
<a href="#">Notice: Undefined index: field_serial_bundle in views_handler_field_field-&gt;pre_render()</a>	active	normal	bug reports	7.x-3.x-dev	Miscellaneous	0	2 hours 28 min	
<a href="#">Exposed Filters Giving an Error</a>	active	normal	bug reports	7.x-3.x-dev	exposed filters	0	2 hours 50 min	
<a href="#">Option to add links section to end of teaser fields e.g. "read more"</a>	fixed	normal	feature requests	6.x-2.12	Code	3	2 hours 51 min	
<a href="#">Implement views_handler_field_multiple</a>	needs work	major	tasks	7.x-3.x-dev	fieldapi data	27	3 hours 5 min	<a href="#">dereine</a>
<a href="#">Problem with Views and the amount of items displaying in my block</a>	postponed (maintainer needs more info)	normal	support requests	6.x-2.12	block displays	1	3 hours 25 min	
<a href="#">Add support for field based translation</a>	fixed	normal	feature requests	7.x-3.x-dev	fieldapi data	14	3 hours 27 min	<a href="#">bojanz</a>

**That gives us another goal:**

**-to learn how to navigate the developer and designer ecosystem surrounding an open source platform!**

**These skills can be transferred to other CMS platforms or even software development.**



## Lullabot Ideas

We know stuff. We empower you to know stuff too.

*drupalize.me*  
LEARN DRUPAL!

### **Blog** | [VIEW ALL](#)

A ginormous lullabrary of tutorial articles & blog posts



#### **Announcement 5: New Training Manager - Bonnie Bias**

**Blog** by [Jeff Robbins](#) | 12.24.2010

### **Podcasts** | [VIEW ALL](#)

The amazing Lullabot Drupal Podcast & Drupal Voices Interviews



#### **Podcast 89: How We Built Drupalize.me**

**Lullabot Podcast** by [Jeff Robbins](#) | 12.03.2010

### **Videos** | [VIEW ALL](#)

A growing lullabrary of Lullabot's helpful free tutorial videos










#### **Command Line Basics: Bash Aliases**

**Video** by [Addison Berry](#) | 12.06.2010

This video shows you how to create your

We are completely without resources – see the weekly readings for reference articles, podcasts and videos.

 Wiki Home Projects Pages and Files Members Recent Changes Manage Wiki Search Wiki**General Reference**

Course Outline

Schedule

Install Directory

**Reference**


FTP Access

Basic Orientation




[edit navigation](#)

★ home

**Week 1, Session 1 | Welcome to the wikispaces home of CCT460S12**

In this course we'll be extending the information architecture fundamentals that you developed in CCT360 and exploring Drupal, a robust and modular content management system ([CMS](#) ). Drupal is noted for being extremely powerful and also for having a steep learning curve and having taught this course in a regular semester, I can say it is tough to fit it into 13 weeks – which means we've got our work cut out for us within this accelerated summer schedule.

Please note the [install directory](#) – and see which install you've been assigned. We'll walk through the installs as a group, but note the reference document.

 Edit  0  0  2 ...

We also have our wiki (and each other)  
<http://cct460-s12.wikispaces.com>



## Assessment and Grading Policies

Type	Description	Format	Due	Weight
Assignment	CV Assignment	Individual	July 26	20%
Presentation	Seminar Presentation	Groups (4-5 members)	TBD	15%
Class Participation	Class & Wiki Participation	-	Ongoing	15%
Assignment	Website	Individual	Aug 17	50%

By task

By module



Welcome to the administration section. Here you may control how your site functions.

Hide descriptions

## Content management

Manage your site's content.

### Content

View, edit, and delete your site's content.

### Content types

Manage posts by content type, including default status, front page promotion, etc.

### Page titles

Enhanced control over the page titles (in the <head> tag).

### Post settings

Control posting behavior, such as teaser length, requiring previews before posting, and the number of posts on the front page.

### RSS publishing

Configure the number of items per feed and whether feeds should be titles/teasers/full-text.

### Taxonomy

Manage tagging, categorization, and classification of your content.

## Site building

Control how your site looks and feels.

### Blocks

Configure what block content appears in your site's sidebars and other regions.

### ImageCache

Administer imagecache presets and actions.

### Menus

Control your site's navigation menu, primary links and secondary links, as well as rename and reorganize menu items.

### Modules

Enable or disable add-on modules for your site.

### Site verifications

Add, change or remove verifications for your site.

### Themes

Change which theme your site uses or allows users to set.

### URL aliases

Change your site's URL paths by aliasing them.

### Views

## W1, S1: Drupal Basics

Admin

Terminology

Modules

Troubleshooting

## W1, S2 : Blocks/Themes

Blocks

Theming

webtype / @fontface

<http://omega.developmentgeeks.com>

### RESPONSIVE & MOBILE FIRST



**Omega** is a **responsive, mobile-first** base theme leading the way in **Drupal** theming that supports **HTML5**, **CSS3** and mobile, fluid, 720, 960 and 1200px (and custom) grids out of the box, giving you full control over your layout, advanced region placement and controls, and contextual layouts provided by the **Delta** and **Context** modules.

Want to help current & future Omega development? [Send a few bucks our way!](#)

#### DRUPAL 7

*Drupal is the most powerful, flexible,*

#### RESPONSIVE GRIDS

*Our grid structure is based on the 960.gs, an*














#### OMEGA THEME

*The standout Drupal 7 theme, based on*

W2, S1: Content

Content types

Content Modules

Label	Name	Type	Operations
 Title	Node module form.		
 thumbnail	field_thumbnail	File	Configure Remove
 Taxonomy	Taxonomy module form.		
 Description	field_desc	Text	Configure Remove
 Collaborators	field_collaborators	Text	Configure Remove
 Link	field_link	Link	Configure Remove
 Menu settings	Menu module form.		
 Body	Node module form.		
 Revision information	Node module form.		
 Path settings	Path module form.		
 File attachments	Upload module form.		
 Authoring information	Node module form.		
 Publishing options	Node module form.		

## W2, S2: Taxonomy & Views

### Taxonomy Content/metadata views!

**Recognition** *Display the view as a block.*

Remove display

#### Basic settings

Name: Recognition

Title: None

Style: Grid

Row style: Fields

Use AJAX: No

Use pager: No

Items to display: Unlimited

More link: No

Distinct: Yes

Access: Unrestricted

Caching: None

Exposed form in block: No

Header: Filtered HTML

Footer: None

Empty text: None

CSS class: None

Theme: Information

#### Block settings

Admin: None

Caching: Do not cache

#### Relationships

None defined

#### Arguments

None defined

#### Fields

Node: Nid

Content: Year Default

Content: image\_thumb\_4 image

Node: Title

Taxonomy: All terms

#### Sort criteria

Content: Year desc

#### Filters

Node: Type = Project

Taxonomy: Vocabulary = Recognition



## W3, S1: Content Redux

## Image Styles Media





W3, S2: jQuery, HTML5

Interface Design/UX

jQuery

HTML5



## W4, S1: Layout (again)

## Panels vs. Blocks Contexts Grid Systems

### Taco Bell mascot: "Yo quiero mi own show"

Submitted by Anonymous on Tue, 10/11/2007 - 04:21

Entertainment

node #93 (story) - Erat laoreet premo premo hos validus. Lenis feugiat sed brevitat fere. Abluo abdo natu esse capto quadrum nostrud erat autem esca. Tation probo gilvus quae mos adipiscing jumentum paulatim vulputate.

Proprius vicis letalis esca ludus. Autem genitus nunc dolore pala saluto. Euismod natu populus saluto augue. Pala ea vulpes. Elit zelus zelus ex exerci similis genitus.



[Add new comment](#) [Read more](#)

### World

Militant Belgian waffles take credit for chocolate explosion in Brussels; no injuries reported

Liechtenstein threatens Congo: "Get off our borders"

15 miners die in fake ID collapse in Euritania

Madagascar suddenly disappears; South African leader shows little interest

Rush on Tickle Me Elmo Doll causes 15 deaths in Qandahar; conspiracy theorists blamed

[more](#)

### Politics

Republican ousted from party after suggesting foreign opinion might matter

### Entertainment

"Cavemen", Susan Lucci slighted at emmies; dissed on 12 nominations  
Taco Bell mascot: "Yo quiero mi own show"

"Dr. Phil" given 50 years after prescribing viagra

Tom Cruise marries, then devours Mandy Moore

Movie review: "Casablanca"; D- for predictable plot

### Sports

Cubs win World Series; Jesus declines to return

Zombie Brett Favre still having fun in 93rd season with Packers

Tom Brady likes bacon: his illenitmate

### What is this site?

This is a site primarily designed to demo a simple newspaper style site using Drupal with the modules Nodequeue and Panels. Click the about link in the primary nav for more information about this site.

You may log into this site as a demo administrator.

Username: demo

Password: demo

This site is reset every hour, so changes you make will not last. If you're mysteriously logged out, this is probably why.

### Un-sponsored links

#### [Messy NBS](#)

The news where liberals get mean and nasty!  
[www.messynbs.com](http://www.messynbs.com)

#### [Faux News](#)

Enter the no spin zone where what we tell you IS the news.  
[www.foxnews.com](http://www.foxnews.com)

#### [DNN](#)

If we can hammer the same news home five times an hour every hour, we will!  
[www.dnn.com](http://www.dnn.com)

#### [I'll jeerya](#)

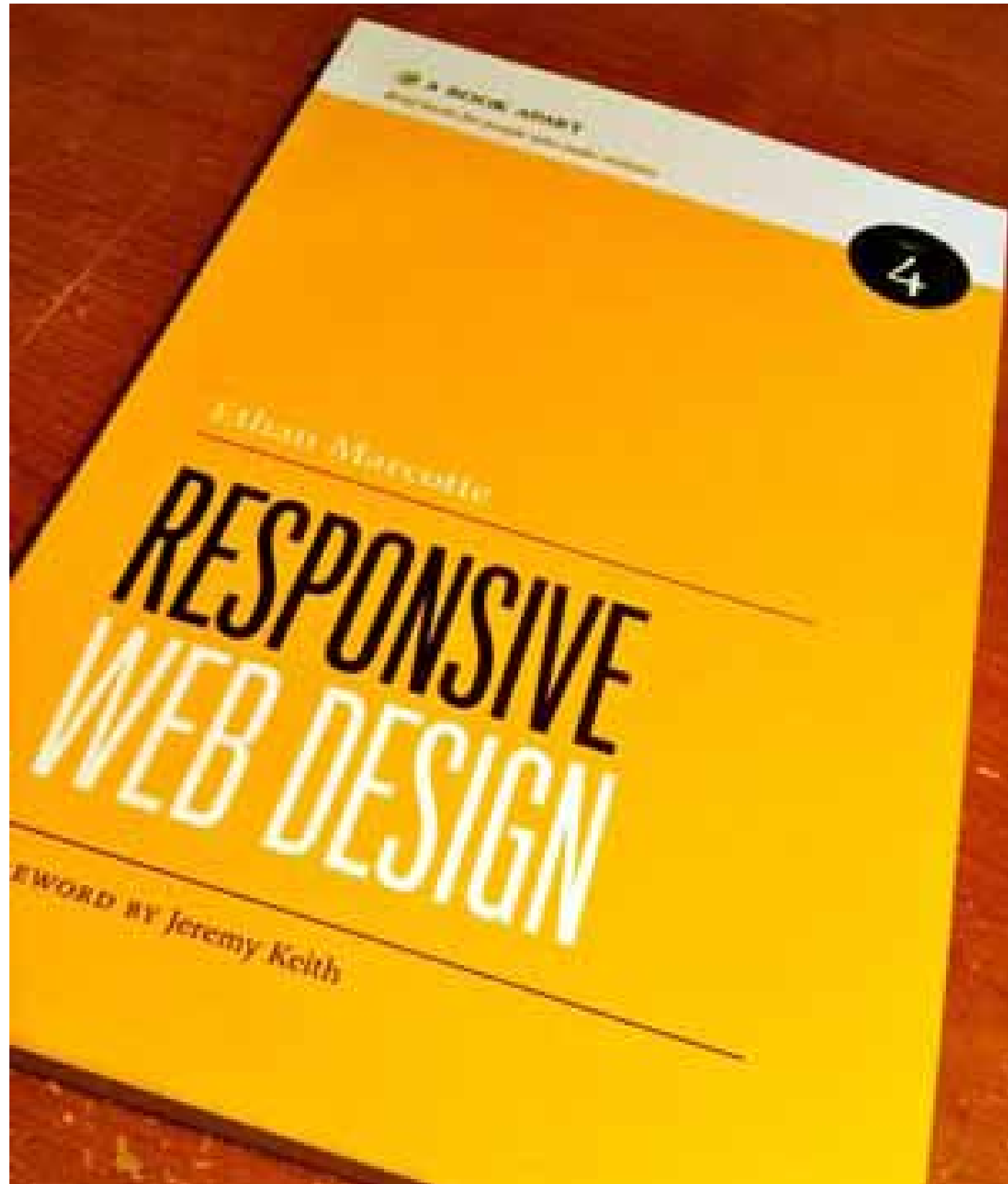
Come to us for an outsider's

## W4, S2: Responsive Web Design

### Media Queries

Designing for (varied) screens

<http://mediaqueri.es>



## W5, S1: Community

## Collaboration User Types Security

Permission	anonymous user	authenticated user
<b>admin module</b>		
use admin toolbar	<input type="checkbox"/>	<input type="checkbox"/>
<b>advanced_help module</b>		
view advanced help index	<input type="checkbox"/>	<input type="checkbox"/>
view advanced help popup	<input type="checkbox"/>	<input type="checkbox"/>
view advanced help topic	<input type="checkbox"/>	<input type="checkbox"/>
<b>block module</b>		
administer blocks	<input type="checkbox"/>	<input type="checkbox"/>
use PHP for block visibility	<input type="checkbox"/>	<input type="checkbox"/>
<b>clone module</b>		
clone node	<input type="checkbox"/>	<input type="checkbox"/>
clone own nodes	<input type="checkbox"/>	<input type="checkbox"/>
<b>content module</b>		
Use PHP input for field settings (dangerous - grant with care)	<input type="checkbox"/>	<input type="checkbox"/>
<b>filter module</b>		
administer filters	<input type="checkbox"/>	<input type="checkbox"/>
<b>googleanalytics module</b>		

Site map file:

Number of URLs in this site map: 90

Click on the table headers to change sorting.

Site map URL	Last modification date	Change freq.	Priority
<a href="http://missionspecialist.net/">http://missionspecialist.net/</a>	2010-11-29T06:52:05+00:00	monthly	1.0
<a href="http://missionspecialist.net/error">http://missionspecialist.net/error</a>	2010-10-05T18:05:34+00:00	always	1.0
<a href="http://missionspecialist.net/studio-profile/approach">http://missionspecialist.net/studio-profile/approach</a>	2010-06-24T05:04:43+00:00	always	1.0
<a href="http://missionspecialist.net/studio-profile/toolkit">http://missionspecialist.net/studio-profile/toolkit</a>	2010-06-24T04:36:43+00:00	always	1.0
<a href="http://missionspecialist.net/studio-profile">http://missionspecialist.net/studio-profile</a>	2010-03-14T02:19:26+00:00	always	1.0
<a href="http://missionspecialist.net/node/180">http://missionspecialist.net/node/180</a>	2010-07-19T00:58:43+00:00	always	0.5
<a href="http://missionspecialist.net/node/181">http://missionspecialist.net/node/181</a>	2010-07-19T00:55:12+00:00	always	0.5
<a href="http://missionspecialist.net/node/178">http://missionspecialist.net/node/178</a>	2010-07-16T04:50:04+00:00	hourly	0.5
<a href="http://missionspecialist.net/node/177">http://missionspecialist.net/node/177</a>	2010-07-16T04:47:07+00:00	hourly	0.5
<a href="http://missionspecialist.net/node/175">http://missionspecialist.net/node/175</a>	2010-07-16T04:15:13+00:00	hourly	0.5
<a href="http://missionspecialist.net/node/173">http://missionspecialist.net/node/173</a>	2010-07-11T02:41:04+00:00	hourly	0.5
<a href="http://missionspecialist.net/node/170">http://missionspecialist.net/node/170</a>	2010-07-09T07:59:53+00:00	hourly	0.5
<a href="http://missionspecialist.net/node/172">http://missionspecialist.net/node/172</a>	2010-07-09T07:57:07+00:00	hourly	0.5
<a href="http://missionspecialist.net/node/171">http://missionspecialist.net/node/171</a>	2010-07-09T07:55:50+00:00	hourly	0.5
<a href="http://missionspecialist.net/node/169">http://missionspecialist.net/node/169</a>	2010-07-09T07:53:42+00:00	hourly	0.5
<a href="http://missionspecialist.net/node/168">http://missionspecialist.net/node/168</a>	2010-07-09T07:52:42+00:00	hourly	0.5
<a href="http://missionspecialist.net/node/155">http://missionspecialist.net/node/155</a>	2010-07-09T07:51:44+00:00	hourly	0.5
<a href="http://missionspecialist.net/node/166">http://missionspecialist.net/node/166</a>	2010-07-09T07:49:13+00:00	hourly	0.5
<a href="http://missionspecialist.net/node/165">http://missionspecialist.net/node/165</a>	2010-07-09T07:46:23+00:00	hourly	0.5
<a href="http://missionspecialist.net/node/163">http://missionspecialist.net/node/163</a>	2010-07-09T07:43:05+00:00	hourly	0.5
<a href="http://missionspecialist.net/node/162">http://missionspecialist.net/node/162</a>	2010-07-09T07:42:07+00:00	hourly	0.5
<a href="http://missionspecialist.net/node/161">http://missionspecialist.net/node/161</a>	2010-07-09T07:41:11+00:00	hourly	0.5
<a href="http://missionspecialist.net/node/160">http://missionspecialist.net/node/160</a>	2010-07-09T07:39:48+00:00	hourly	0.5
<a href="http://missionspecialist.net/node/159">http://missionspecialist.net/node/159</a>	2010-07-09T07:38:42+00:00	hourly	0.5
<a href="http://missionspecialist.net/node/157">http://missionspecialist.net/node/157</a>	2010-07-09T07:36:14+00:00	hourly	0.5
<a href="http://missionspecialist.net/node/156">http://missionspecialist.net/node/156</a>	2010-07-09T07:35:19+00:00	hourly	0.5
<a href="http://missionspecialist.net/node/153">http://missionspecialist.net/node/153</a>	2010-06-30T06:30:25+00:00	hourly	0.5
<a href="http://missionspecialist.net/node/151">http://missionspecialist.net/node/151</a>	2010-06-27T00:26:16+00:00	hourly	0.5
<a href="http://missionspecialist.net/node/150">http://missionspecialist.net/node/150</a>	2010-06-27T00:25:18+00:00	hourly	0.5
<a href="http://missionspecialist.net/node/149">http://missionspecialist.net/node/149</a>	2010-06-26T23:45:53+00:00	always	0.5
<a href="http://missionspecialist.net/node/147">http://missionspecialist.net/node/147</a>	2010-06-24T17:17:07+00:00	always	0.5
<a href="http://missionspecialist.net/node/146">http://missionspecialist.net/node/146</a>	2010-06-24T17:16:19+00:00	always	0.5
<a href="http://missionspecialist.net/node/145">http://missionspecialist.net/node/145</a>	2010-06-24T17:15:40+00:00	always	0.5

W5, S2: SEO & Speed

SEO  
Sitemaps  
Caching

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